

ABSTRACT

A photochromic lens consists of a lens coated with an elastomeric film having a photochromic dye dispersed therein. The elastomeric provides abrasion resistance and some impact resistance to the lens. The photochromic lens is characterized by lower spectral transmission when activated, and shorter activation and deactivation times than previously known photochromic lenses. A method for making the photochromic lens consists of dissolving one or more photochromic dyes in an elastomeric pre-polymer solution, immersing the lens in the solution so that the lens becomes coated with the pre-polymer solution, and treating the lens, for example, by heating, to cause said pre-polymer to form an elastomeric film on the lens. Preferably, the pre-polymer solution is a polyurethane pre-polymer.